
HP Latex 630 Printer Series

Introductory Information

This introductory document includes legal notices and safety precautions, describes the use of the control panel, and gives some relevant specifications.

What is it?

Your printer is a color inkjet printer designed for printing high-quality images on flexible substrates for indoor and outdoor print applications.

Some major features of your printer are:

- Sharp print quality, smooth transitions, and fine details with its six colors and 1200 real dpi
- One-liter HP Eco-Carton ink cartridges
- A wide range of ready-made substrate presets easily available

Where is the user guide?

The user guide for your printer can be downloaded from the HP website.

The full set of printer documentation can be downloaded from <http://www.hp.com/go/latex630/manuals>.

Further information is available from <http://www.hp.com/go/latex630/support>.

Videos about how to use the printer can be found at:

- HP website: <http://www.hp.com/supportvideos>
- Youtube: <http://www.youtube.com/HPsupportAdvanced>

Visit the HP LFP Knowledge Center to find detailed information about HP Latex products and applications, and use the forum at <https://kcc.hp.com/> to discuss anything business-related.

Legal notices

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The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statement accompanying such products and services. Nothing herein should be construed as constituting an additional warranty.

You can download the expressly provided HP Limited Warranty and Legal Information applicable to your product from <http://www.hp.com/go/latex630/manuals>. For some countries/regions a printed HP Limited Warranty is provided in the box. In countries/regions where the warranty is not provided in printed format, you may request a printed copy from <http://www.hp.com/go/orderdocuments>, or write to: HP, MS POD, 11311 Chinden Blvd, Boise, ID 83714, USA. Please include your product number, warranty period (found on your serial number label), name, and postal address.

You can find the Declaration of Conformity by searching for BCLAA-2209-64 (HP Latex 630 printer series) at <http://www.hp.eu/certificates>.

Safety precautions

Before using your printer, read, understand, and follow these safety precautions, and your local Environmental, Health, and Safety regulations.

This equipment is not suitable for use in locations where children are likely to be present. For any maintenance or part replacement, follow the instructions provided in HP documentation to minimize safety risks and to avoid damaging the printer.

General safety guidelines

Please read these safety guidelines carefully.

There are no operator-serviceable parts inside the printer except those covered by HP's Customer Self Repair program: see <http://www.hp.com/go/selfrepair>. Refer servicing of other parts to qualified service personnel.

Turn off the printer and call your service representative in any of the following cases:

- A power cord or plug is damaged.
- The curing enclosures are damaged.
- The printer has been damaged by an impact.
- There is any mechanical or enclosure damage.
- Liquid has entered the printer.
- There is smoke or an unusual smell coming from the printer.
- The printer has been dropped or the curing module has been damaged.
- The printer is not operating normally.

Turn off the printer in either of the following cases:

- During a thunderstorm
- During a power failure

Take special care with zones marked with warning labels.

Electrical shock hazard

⚠ WARNING! The internal circuits of curing zones, curing driver and built-in power supply operate at hazardous voltages capable of causing death or serious personal injury.

The printer uses two power cords. Unplug both power cords before servicing the printer.

To avoid the risk of electric shock:

- The printer must be connected to earthed mains outlets only.
- Do not attempt to dismantle the curing modules.
- Do not remove or open any closed system covers or plugs.
- Do not insert objects through slots in the printer.

Heat hazard

The curing subsystems of the printer operate at high temperatures and can cause burns if touched. To avoid personal injury, take the following precautions:

- Do not touch the internal enclosures of the printer's curing zones.
- Let the printer cool down before accessing the print zone and output platen in the case of a substrate jam.
- Let the printer cool down before performing some maintenance operations.

Fire hazard

The curing subsystems of the printer operate at high temperatures.

To avoid the risk of fire, take the following precautions:

- The customer is responsible for meeting the printer's requirements and the Electrical Code requirements according to the local jurisdiction of the country where the equipment is installed. Use the power supply voltage specified on the nameplate.
- Connect the power cord to a dedicated line protected by a branch circuit breaker, as explained in the site preparation guide. Do not use a power strip (relocatable power tap) to connect both power cords.
- Use only the power cord supplied by HP with the printer. Do not use a damaged power cord. Do not use the power cord with other products.
- Do not insert objects through slots in the printer.
- Take care not to spill liquid on the printer. After cleaning, make sure all components are dry before using the printer again.
- Do not use aerosol products that contain flammable gases inside or around the printer. Do not operate the printer in an explosive atmosphere.
- Do not block or cover the openings of the printer.
- Do not attempt to dismantle or modify the curing modules.

- Ensure that the operating temperature of the substrate, as recommended by its manufacturer, is not exceeded. If this information is not available, ask the manufacturer. Do not load substrates that cannot be used at an operating temperature above 125°C (257°F).
- Do not load substrates with auto-ignition temperatures below 250°C (482°F). If this information is not available, printing must be supervised at all times. See note below.



NOTE: Test method based on EN ISO 6942:2002: Evaluation of materials and material assemblies when exposed to a source of radiant heat, method B. The test conditions to determine the temperature when the substrate starts ignition (either flame or glow) were: Heat flux density: 30 kW/m², copper calorimeter, K-type thermocouple.

Mechanical hazard

The printer has moving parts that could cause injury. To avoid personal injury, take the following precautions when working close to the printer:

- Keep your clothing and all parts of your body away from the printer's moving parts.
- Avoid wearing necklaces, bracelets, and other hanging objects.
- If your hair is long, try to secure it so that it will not fall into the printer.
- Take care that sleeves or gloves do not get caught in the printer's moving parts.
- Avoid standing close to the fans, which could cause injury and could also affect print quality (by obstructing the air flow).
- Do not touch gears or moving rolls during printing.
- Do not operate the printer with covers bypassed.
- Ensure that nobody else is close to the printer while loading substrate.
- Ensure that the carriage has stopped in the service station before you open the front window or the carriage door.

Light radiation hazard

Light radiation is emitted from the illumination of the print zone.

This illumination is in compliance with the requirements of the exempt group of IEC 62471:2006: *Photobiological safety of lamps and lamp systems*. However, you are recommended not to look directly at the LEDs while they are on. Do not modify the module.

Chemical hazard

Safety data sheets are available.

See the safety data sheets available at <http://www.hp.com/go/msds> to identify the chemical ingredients of your consumables. Sufficient ventilation needs to be provided to ensure that potential airborne exposure to these substances is adequately controlled. Consult your usual air conditioning or EHS specialist for advice on the appropriate measures for your location.

For more detailed information, see the **Ventilation and Air conditioning** sections included in the site preparation guide, available at: <http://www.hp.com/go/latex630/manuals>.

Ventilation

Fresh air ventilation is needed to maintain comfort levels.

Ventilation should meet local environmental, health, and safety (EHS) guidelines and regulations. Follow the ventilation recommendations in the site preparation guide.



NOTE: The ventilation units should not blow air directly onto the printer.

Air conditioning

In addition to fresh air ventilation to avoid health hazards, consider also maintaining workplace ambient levels by ensuring the climatic operating conditions (specified in the user guide) to avoid operator discomfort and equipment malfunction. Air conditioning in the work area should take into account that the printer produces heat.

Typically, the printer's power dissipation is 1.8 kW (6.1 kBTU/h).

Air conditioning should meet local Environmental Health and Safety (EHS) guidelines and regulations.



NOTE: The air-conditioning units should not blow air directly onto the equipment.

Heavy substrate hazard

Special care must be taken to avoid personal injury when handling heavy substrates.

- Handling heavy substrate rolls always requires two people. Care must be taken to avoid back strain and/or injury.
- Consider using a forklift, pallet truck, or other handling equipment.
- When handling heavy substrate rolls, wear personal protective equipment including boots and gloves.
- Use the loading accessories (loading-table extension and lifter) when you load substrate rolls.

Ink handling

HP recommends that you wear gloves when handling ink system components.

Control panel

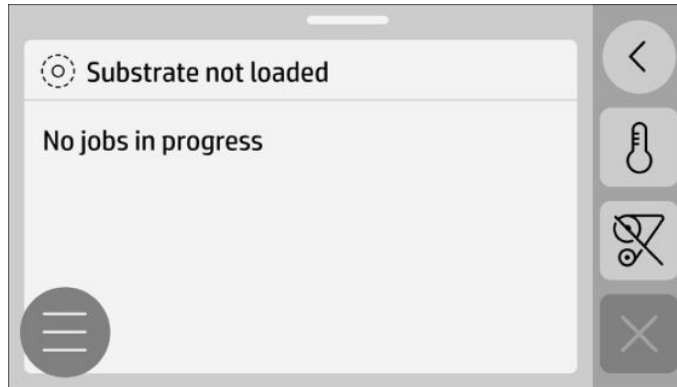
The control panel is a touch-sensitive screen with a graphical user interface; it is located on the front right of the printer.

It gives you complete control of your printer: you can view information about the printer, change printer settings, perform calibrations and tests, and so on. The control panel also displays alerts (warning and error messages) when necessary.

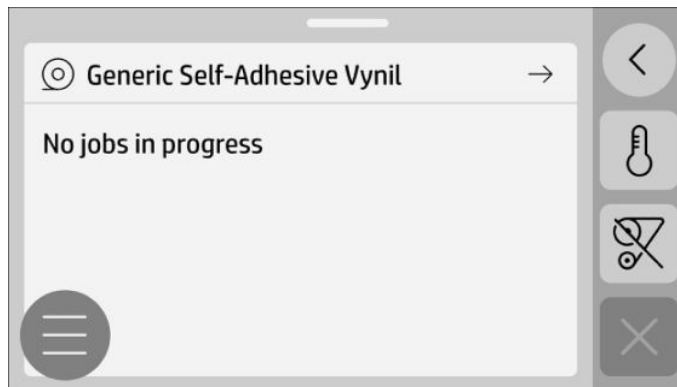
Job-queue widget

The home screen has a job-queue widget, which changes its appearance according to the printer status.

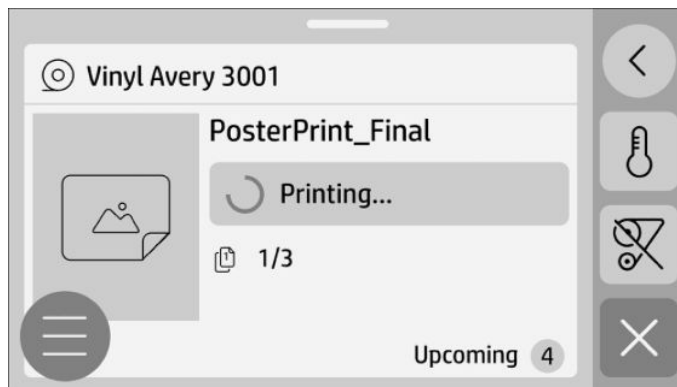
No substrate loaded



Substrate loaded, not printing

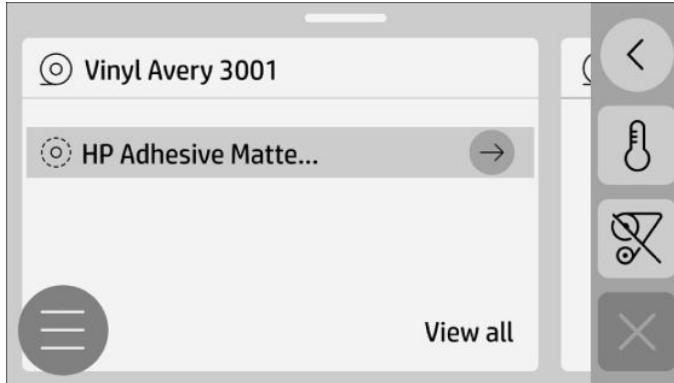


Printing



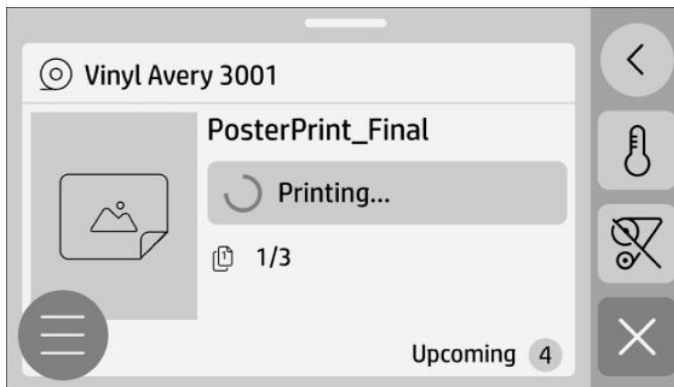
When jobs with different substrate types are sent to the printer, each substrate is displayed in a different cluster with the corresponding jobs. Tapping the arrow button next to the substrate causes the substrate to be loaded; if another substrate is loaded, it is first unloaded.

Change of substrate

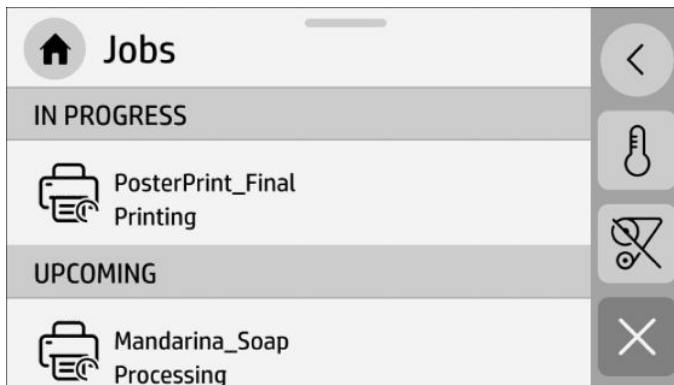


When you send a job, the job widget expands to include information about the current job, and its thumbnail. You can go directly to the job queue by tapping this widget.

Printing



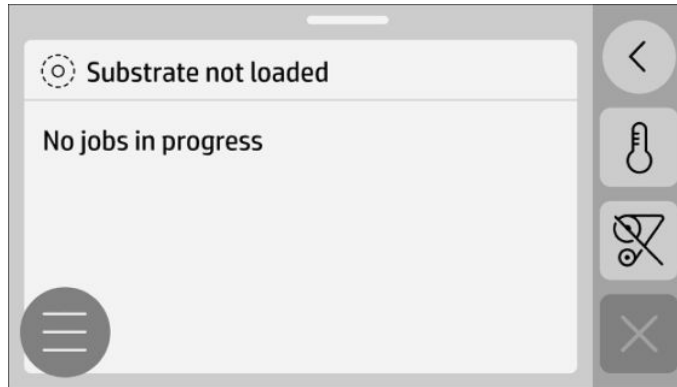
Job queue



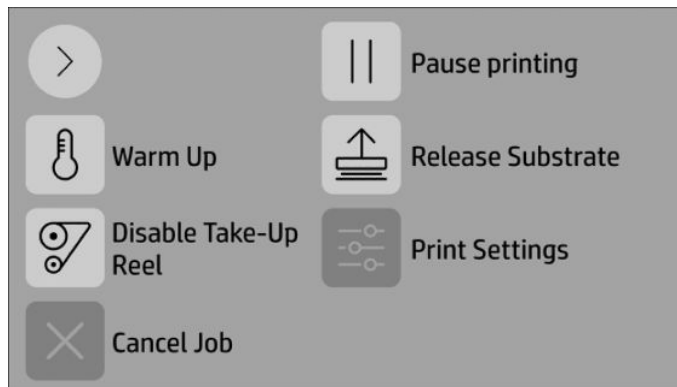
Quick-action bar

The quick-action bar is designed to expand to the left when you tap the arrow button at the top right, so that you can find the main actions that you need at the first level. These are actions that need to be accessed quickly as they are often used in a daily work routine.

No substrate loaded



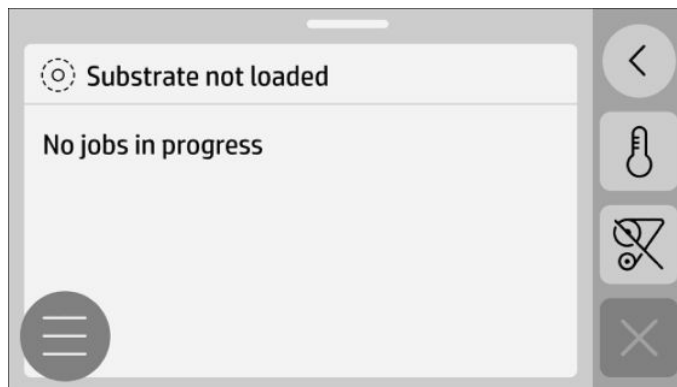
Quick actions



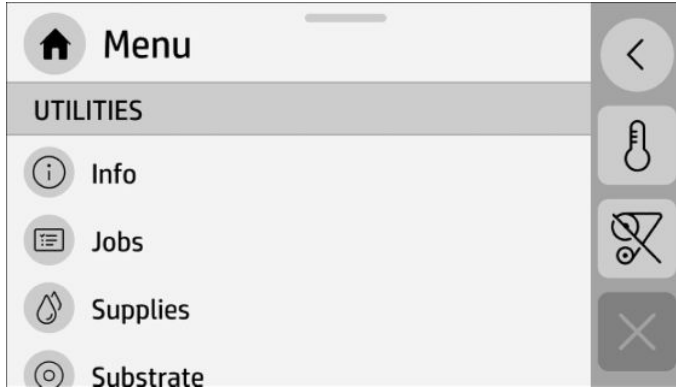
Menu

Tap the three horizontal bars in the bottom left corner to access the menu, which offers submenus to change settings, access the substrate library, manage supplies, and so on.

No substrate loaded



Menu

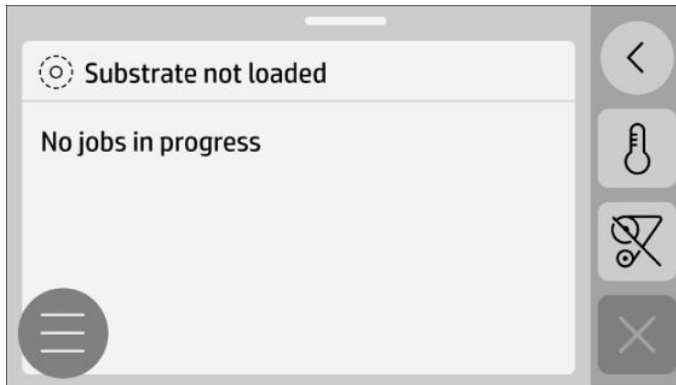


Status center

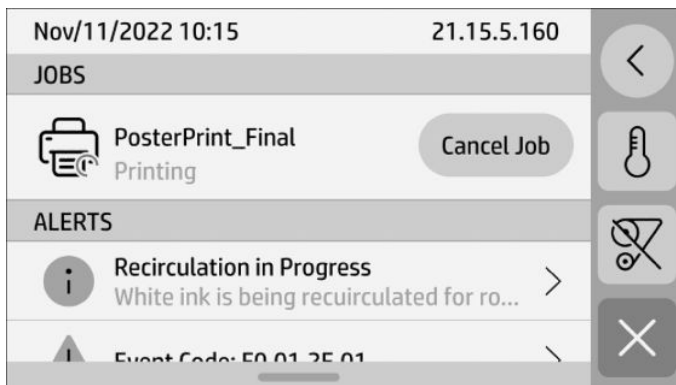
The status center displays alerts, informative notifications, warnings, and system errors.

You can access the status center by swiping down the horizontal bar at the top of every control-panel screen. If you tap any alert in the status center, you will see further information or recommendations to resolve an issue.

No substrate loaded



Status center



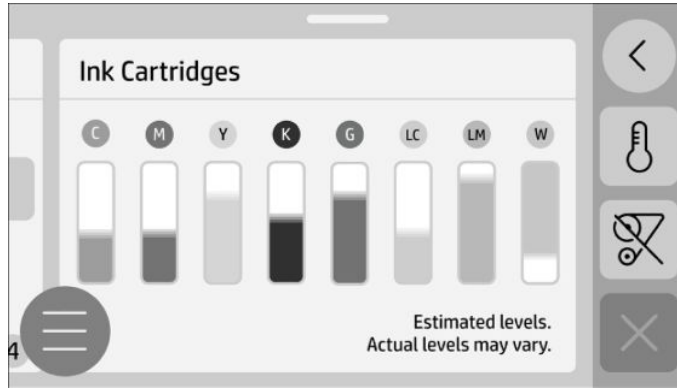
Supplies widget

The supplies widget shows the status of the ink cartridges: the ink levels, and an alert if the ink level is low.

To see the supplies widget, swipe the home screen to the right.

If you tap the widget, the supplies screen is displayed, where you can start the cartridge replacement process.

Supplies widget



Control-panel error codes

The control panel may occasionally display a system error, consisting of an alphanumeric code followed by the recommended action to take.

System error codes have been defined in two different formats: DOXX-nnYY-mmZZ, which explains which component or system is failing, and xx.xx.xx.xx. Both formats explain what action should be taken.

In most cases you will be asked to restart the printer. When the printer starts, it can diagnose the issue better and may be able to fix it automatically. If the problem persists after restarting, contact your service representative and be ready to give the alphanumeric code from the error message. If the error message contains some other recommended action, follow the instructions.

Specifications

This topic provides reference information.

Power specifications

Characteristic	Specification
Number of power cords	2
Input voltage	200-240 V (two wires and protective earth)
Input frequency	50 / 60 Hz
Maximum load current (per power cord)	Printer: 5 A Curing: 12 A
Power consumption per power cord in printing mode	Printer: 0.9 kW Curing: 2.0 kW
Power consumption in ready mode	60 W

Site voltage must be within the “Input voltage” range. HP printers have been tested to be able to withstand disturbances such as surge transients, voltage sag, and voltage dropout. Contact your service representative if you would like more information about such power disturbances.

Environmental specifications

Characteristic	Specification
Relative humidity range for best print quality	40–60%, depending on substrate type
Relative humidity range for printing	20–80%, depending on substrate type
Temperature range for best print quality	20 to 25°C (68 to 77°F), depending on substrate type
Temperature range for printing	15 to 30°C (59 to 86°F), depending on substrate type
Temperature range when not in operation	–15 to +55°C (+5 to +131°F)
Temperature gradient	no more than 10°C/h (18°F/h)
Maximum altitude when printing	3000 m (10000 ft)

Acoustic specifications

Characteristic	Specification	
Sound pressure	Printing	55 dB(A)
	Ready (standby)	38 dB(A)
	Sleep	< 20 dB(A)
Sound power	Printing	7.5 B(A)
	Ready (standby)	5.5 B(A)
	Sleep	< 4 B(A)